



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
KENWORTH T880 T-868 (S/N 1NKZXPEX3LJ391742)

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0804131	WC0865122	WC0865127
Sample Date		Client Info		03 Jul 2024	04 Mar 2024	22 Jan 2024
Machine Age	mls	Client Info		291801	162560	127696
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	57	27	43
Chromium	ppm	ASTM D5185m	>20	<1	2	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	7	4	13
Lead	ppm	ASTM D5185m	>40	<1	4	3
Copper	ppm	ASTM D5185m	>330	3	2	4
Tin	ppm	ASTM D5185m	>15	<1	1	2
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

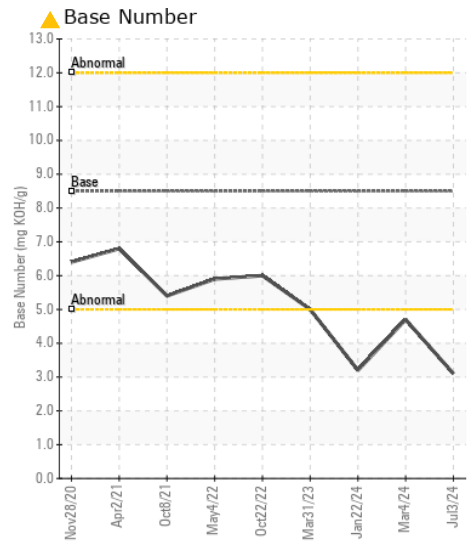
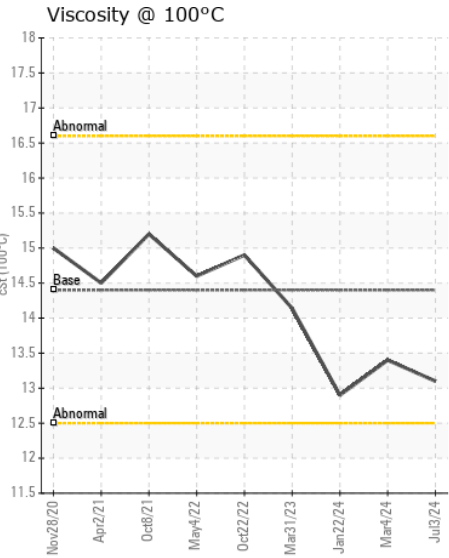
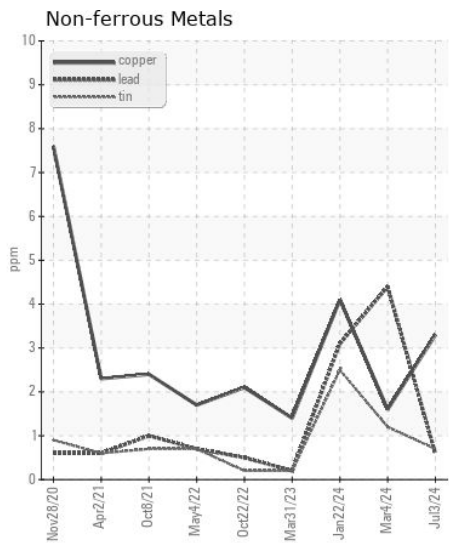
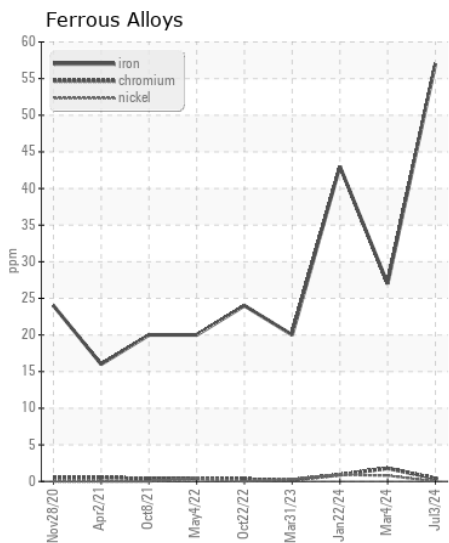
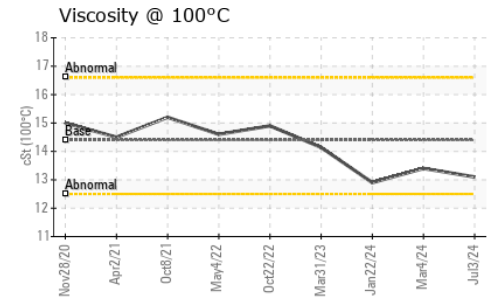
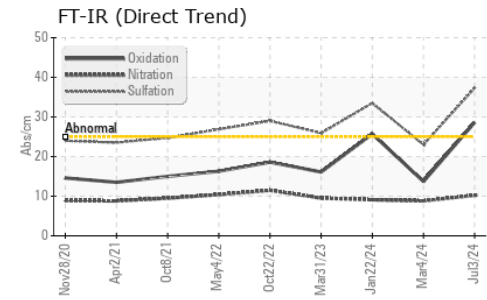
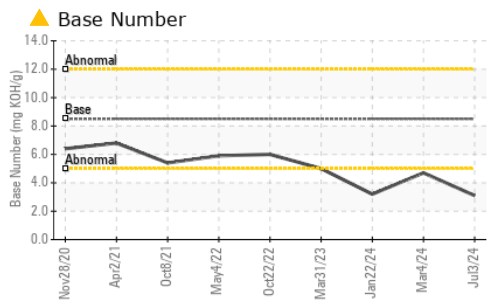
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	7	10
Potassium	ppm	ASTM D5185m	>20	6	6	9
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	2	0.4	1.1
Nitration	Abs/cm	*ASTM D7624	>20	10.2	8.8	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	37.3	23.0	33.5
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN level is low. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>158	3	7	4
Boron	ppm	ASTM D5185m	250	0	<1	3
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	2	4	4
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	450	63	50	52
Calcium	ppm	ASTM D5185m	3000	2637	2416	2459
Phosphorus	ppm	ASTM D5185m	1150	1078	965	1064
Zinc	ppm	ASTM D5185m	1350	1203	1132	1118
Sulfur	ppm	ASTM D5185m	4250	3809	3814	3462
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.6	13.7	25.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	▲ 3.1	4.7	▲ 3.2
Visc @ 100°C	cSt	ASTM D445	14.4	13.1	13.4	12.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0804131 **Received** : 15 Jul 2024
Lab Number : 06237393 **Tested** : 17 Jul 2024
Unique Number : 11126227 **Diagnosed** : 17 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: TBN)

EAI EQUIPMENT A DIV OF PLEASANT CONSTRUCTION INC
 24024 FREDERICK ROAD
 CLARKSBURG, MD
 US 20871
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)